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Acquisitions Editor: Christey Balm Project Editor: Kim Fryer



DA n. See desk accessory.

DAC \dak\ n. See digital-to-analog convertee.

daemon n. A program associated with UNIX systems that performs a housekeeping or maintenance willty function without being called by the user. A daemon sits in the background and is activated only when needed, for example, to correct an error from which another program cannot recover.

daisy chain n. A set of devices connected in series. In order to eliminate conflicting requests to use the channel (bus) to which all the devices are connected, each device is given a different priority. SCSI (Small Computer System Interface) and the newer USB (Universal Serial Bus) both support daisy chained devices. See also SCSI, USB.

daisy chain² vb. To connect a series of devices, one to another, like daisies in a chain of flowers.

daisy wheel n. A print element consisting of a set of formed characters with each character mounted on a separate type bar, all radiating from a center hab. See also daisy-wheel printer, thimble, thimble printer.

daisy-wheel printer n. A printer that uses a daisywheel type element. Daisy-wheel output is crisp and alightly imprinted, with fully formed characters resembling typewriter quality. Daisy-wheel printers were standard for high-quality printing until being superseded by laser printers. See also daisy wheel, thimble, thimble printer.

damping n. A technique for preventing overshoot (exceeding the desired limit) in the response of a circuit ox device.

D-AMPS n. Acronym for Digital Advanced Mobile Phone Service. The digital form of the snalog AMPS cellular phone service. D-AMPS, sometimes spelled DAMPS, differs from AMPS in being digital and in tripling the number of available channels by using time division multiple access (TDMA) to divide each of the 30 AMPS channels into three separate channels. See also AMPS, FDMA, TDMA.

DAP \dap\ n. See Directory Access Protocol.

dark fiber n. Unused capacity in fiber-optic communications.

Darlington circuit n. An amplifier circuit made of two transistors, often mounted in the same housing. The collectors of the two transistors are connected, and the emitter of the first is connected to the base of the second. Darlington circuits provide high-gain amplification. Also called Darlington pair.

Darlington pair n. See Darlington circuit.

DARPA \där'pa\n. See Defense Advanced Research Projects Agency.

DARPANET \där'pə-net'\n. Short for Defense Advanced Research Projects Agency Network. See ARPANET.

DAS n. See dual attachment station.

DASD \daz'de\n. Acronym for direct access storage device. A data storage device by which information can be accessed directly, instead of by passing sequentially through all storage areas. For example, a disk drive is a DASD, but a tape unit is not, because, with a tape unit, the data is stored as a linear sequence. See also direct access. Compars sequential access.

dat n. A generic file extension for a data file.

DAT \dat\ n. See digital audio tape, dynamic address translation.

data n. Plural of the Latin datum, meaning an item of information. In practice, data is often used for the singular as well as the plural form of the noun. Compare information.

data acquisition M. The process of obtaining data from another source, usually one outside a specific system.

data aggregate n. A collection of data records. It usually includes a description of the placement of the data blocks and their relation to the entire set.

data attribute n. Structural information about data that describes its context and meaning.

data bank n. Any substantial collection of data,

moderns, for example, can transfer data as fast as 30

Mbps downstream but support much slower rates,

downward compatibility n. The capability of source code or programs developed on a more advanced system or compiler version to be executed or compiled by a less advanced (older) version, Compare upward-compatible.

DP n. See data processing.

allow time for maintenance.

dpi n. See dots per inch.

DPMA n. Acronym for Data Processing Management Association. A trade organization of information systems (IS) professionals. DPMA was founded in 1951 as the National Machine Accountants Association.

DPMI n. See DOS Protected Mode Interface.

DPMS n. Acronym for VESA Display Power Management Signaling. A VESA standard for signals that put a video monitor into "standby" or "suspend" mode to reduce power consumption. See also green PC, VESA².

DPSK n. Acronym for differential phase-shift keying. See phase-shift keying.

draft mode n. A high-speed, relatively low-quality print mode offered by most dot-matrix printers. See also dot-matrix printer, draft quality, print quality.

draft quality n. A low grade of printing generated by the draft mode on dot-matrix printers. Draft quality varies among printers, ranging from suitable for most purposes to nearly useless. See also draft mode, print quality.

drag vh. In graphical user interface environments, to move an image or a window from one place on the screen to another by "grabbing" it and pulling it to its new location using the mouse. The mouse pointer is positioned over the object, and the mouse button is pressed and held while the mouse is moved to the new location.

drag-and-drop vb. 1. In general, to delve into something in increasing detail. 2. More specifically, to

each node refers to both the next node and the preceding node. Because of these two-way references, a doubly linked list can be traversed both forward and backward, rather than in a forward direction only, as with a singly linked list.

down adj. Not functioning, in reference to computers, printers, communications lines on networks, and other such hardware.

downflow n. One of the four stages of the data warehousing process, during which stored information is delivered and archived. See also data warehouse². Compare inlow, metaflow, upflow.

downlink n. The transmission of data from a communications satellite to an earth station.

download vb. 1. In communications, to transfer a copy of a file from a remote computer to the requesting computer by means of a modem or network. 2. To send a block of data, such as a PostScript file, to a dependent device, such as a PostScript printer. Compare upload.

downloadable font n. A set of characters stored on disk and sent (downloaded) to a printer's memory when needed for printing a document. Downloadable fonts are most commonly used with laser printers and other page printers, although many dot-matrix printers can accept some of them. Also called soft font.

downsizing n. In computing, the practice of moving from larger computer systems, such as mainframes and minicomputers, to smaller systems in an organization, generally to save costs and to update to newer software. The smaller systems are usually client/server systems composed of a combination of PCs, workstations, and some legacy system such as a mainframe, connected in one or more local area networks or wide area networks. See also client/server architecture, legacy system.

downstream¹ n. The direction in which information, such as a news feed for a newsgroup or data from an http (Web) server, is passed from one server to the next. See also news feed, newsgroup, server.

downstream² adv. 1. The location of a client computer in relation to a server. 2. The direction in which data moves from the server to the client.

downstream' adj. Refers to data that moves from a remote network to an individual computer. In some Internet-related communications technologies, data flows more quickly downstream than upstream; cable

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exabyte \eks'a-bit\\ n. Roughly I quintillion bytes, or a billion billion bytes, or 1,152,921,504,606,846,976 bytes. Abbreviation: EB.

exception n. In programming, a problem or change in conditions that causes the microprocessor to stop what it is doing and handle the situation in a separate routine. An exception is similar to an interrupt; both refer the microprocessor to a separate set of instructions. See also interrupt.

exception handling n. See error handling. exchangeable disk n. See removable disk.

exchange sort n. See bubble sort.

Excite n. A World Wide Web search engine developed by Excite, Inc. After conducting a search, Excite provides both a summary of each matching Web site it has located and a link to more information of the same type.

exclusive NOR n. A two-state digital electronic circuit in which the output is driven high only if the inputs are all high or all low.

exclusive OR n. A Boolean operation that yields "true" if and only if one of its operands is true and the other is false. See the table. Acronym: EOR. Also called KOR. See also Boolean operator, truth table. Compare AND, OR.

Table E.1 Exclusive OR		
a	b	a XOR b
0	0	0
0	ì	i
1	0	1
1	1	0

ext n. In MS-DOS, a filename extension that indicates that a file is an executable program. To run an executable program, the user types the filename without the .exe extension at the prompt and presses Enter. See also executable program.

executable adj. Of, pertaining to, or being a program file that can be run. Executable files have extensions such as .bat, .com, and .exe.

executable, v. A program file that can be run, such as file0.bat, file1.exe, or file2.com.

exocutable program n. A program that can be run. The term usually applies to a compiled program translated into machine code in a format that can be loaded into memory and run by a computer's processor, In interpreter languages, an executable program

can be source code in the proper format. See also code (definition 1), compiler (definition 2), computer program, interpreter, source code.

execute vb. To perform an instruction. In programming, execution implies loading the machine code of the program into memory and then performing the instructions.

execution time n. The time, measured in clock ticks (pulses of a computer's internal timer), required by a microprocessor to decode and carry out an instruction after it is fetched from memory. Also called B-time. See also instruction time.

executive n. See operating system.

executive information system n. A set of tools designed to organize information into categories and reports. Because it emphasizes information, an executive information system differs from a decision support system (DSS), which is designed for analysis and decision making. Acronym: EIS. Compare decision support system.

exercises n. A program that exercises a piece of hardware or software by running it through a large set of operations.

exit vb. In a program, to move from the called routine back to the calling routine. A routine can have more than one exit point, thus allowing termination based on various conditions.

expanded adj. A font style that sets characters farther apart than the normal spacing, Compare condensed.

expanded memory n. A type of memory, up to 8 MB, that can be added to IBM PCs. Its use is defined by the Expanded Memory Specification (EMS). Expanded memory is not accessible to programs in MS-DOS, so the Expanded Memory Manager (EMM) maps pages (blocks) of bytes from expanded memory into page frames in accessible memory areas. Expanded memory is not needed in Windows 9x, all versions of Windows NT, and Windows 2000. See also HEMS, EMS, Expanded Memory Manager, page frame.

Expanded Memory Manager n. A driver that implements the software portion of the Expanded Memory Specification (EMS) to make expanded memory in . IBM and compatible PCs accessible. Acronym: EMM. See also EMS, expanded memory, extended memory.

Expanded Memory Specification n. See EMS.

expansion n. A way of increasing a computer's capabilities by adding hardware that performs tasks that

types, and variables, that usually performs a single task. A procedure can usually be called (executed) by other procedures, as well as by the main body of the program. Some languages distinguish between a procedure and a function, with the latter (the function) returning a value. See also function, parameter, procedural language, routine, subroutine.

procedure call n. In programming, an instruction that causes a procedure to be executed. A procedure call can be located in another procedure or in the main body of the program. See also procedure.

process¹ n. A program or part of a program; a coherent sequence of steps undertaken by a program.

process² vb. To manipulate data with a program. process-bound adj. Limited in performance by pro-

process-bound adj. Limited in performance by processing requirements. See also computation-bound.

process color n. A method of handling color in a document in which each block of color is separated into its subtractive primary color components for printing: cyan, magenta, and yellow (as well as black). All other colors are created by blending layers of various sizes of halftone spots printed in cyan, magenta, and yellow to create the image. See also color model, color separation (definition 1). Compare spot color.

processing n. The manipulation of data within a computer system. Processing is the vital step between receiving data (input) and producing results (output)—the task for which computers are designed.

processor n. See central processing unit, microprocessor.

Processor Direct Slot n. See PDS (definition 1).

Processor Input/Output n. See PIO.

Predigy Information Service n. An online information service founded by IBM and Sears. Like its competitors America Online and CompuServe, Prodigy offers access to databases and file libraries, online char, special interest groups, e-mail, and Internet connectivity. Also called Prodigy.

used in database management that, when applied to two existing relations (tables), results in the creation of a new table containing all possible ordered concatenations (combinations) of tuples (rows) from the first relation with tuples from the second. The number of rows in the resulting relation is the product of the number of rows in the two source relations. Also

called Cartesian product. Compare inner join. 2. In mathematics, the result of multiplying two or more numbers. 3. In the most general sense, an entity conceived and developed for the purpose of competing in a commercial market. Although computers are products, the term is more commonly applied to software, peripherals, and accessories in the computing arena.

production system n. In expert systems, an approach to problem solving based on an "IF this, THEN that" approach that uses a set of rules, a database of information, and a "rule interpreter" to match premises with facts and form a conclusion. Production systems are also known as rule-based systems or inference systems. See also expert system.

Professional Graphics Adapter n. A video adapter introduced by IBM, primarily for CAD applications. The Professional Graphics Adapter is capable of displaying 256 colors, with a horizontal resolution of 640 pixels and a vertical resolution of 480 pixels. Acronym. PGA.

Professional Graphics Display n. An analog display introduced by IBM, intended for use with their Professional Graphics Adapter. See also Professional Graphics Adapter.

profile¹ n. See user profile.

profile³ vb. To analyze a program to determine how much time is spent in different parts of the program during execution.

Profiles for Open Systems Internetworking Technology n. See POSIT.

program¹ n. A sequence of instructions that can be executed by a computer. The term can refer to the original source code or to the executable (machine language) version. Also called software. See also program creation, routine, statement.

program² vb. To create a computer program, a set of instructions that a computer or other device executes to perform a series of actions or a particular type of work.

program card n. See PC Card, ROM card. program cartridge n. See ROM cartridge.

program counter n. A register (small, high-speed memory circuit within a microprocessor) that contains the address (location) of the instruction to be executed next in the program sequence. P

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